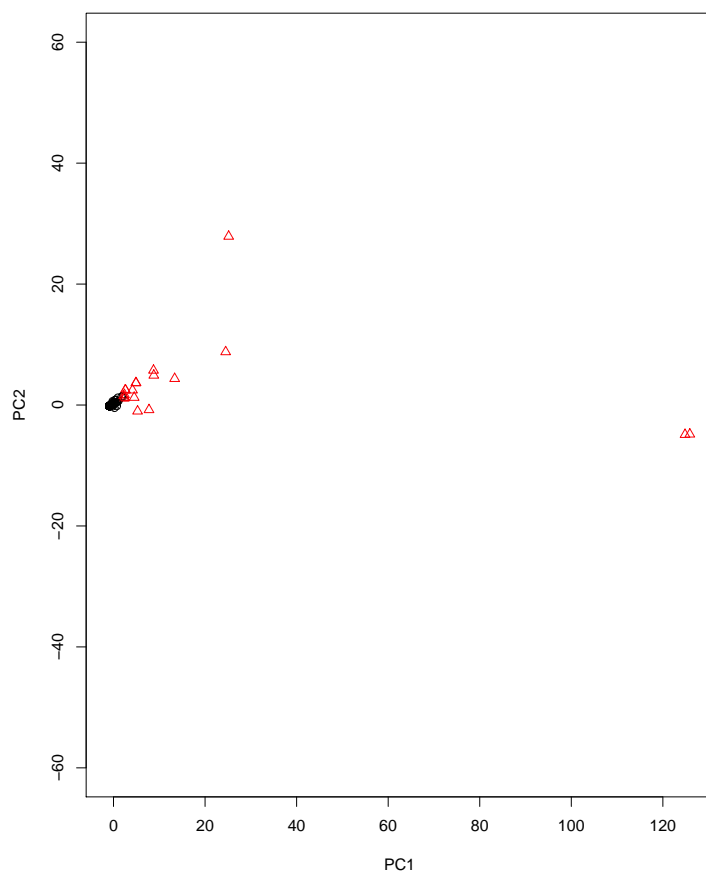
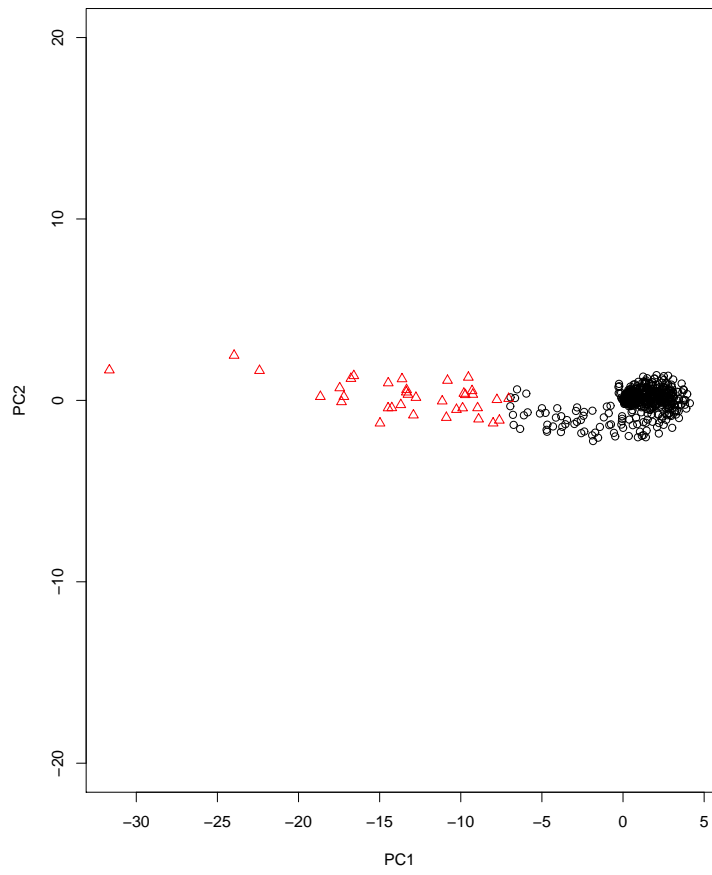


Figure S1: Two dimensional embedding of miRNAs used for FE. Red triangles are selected miRNAs.

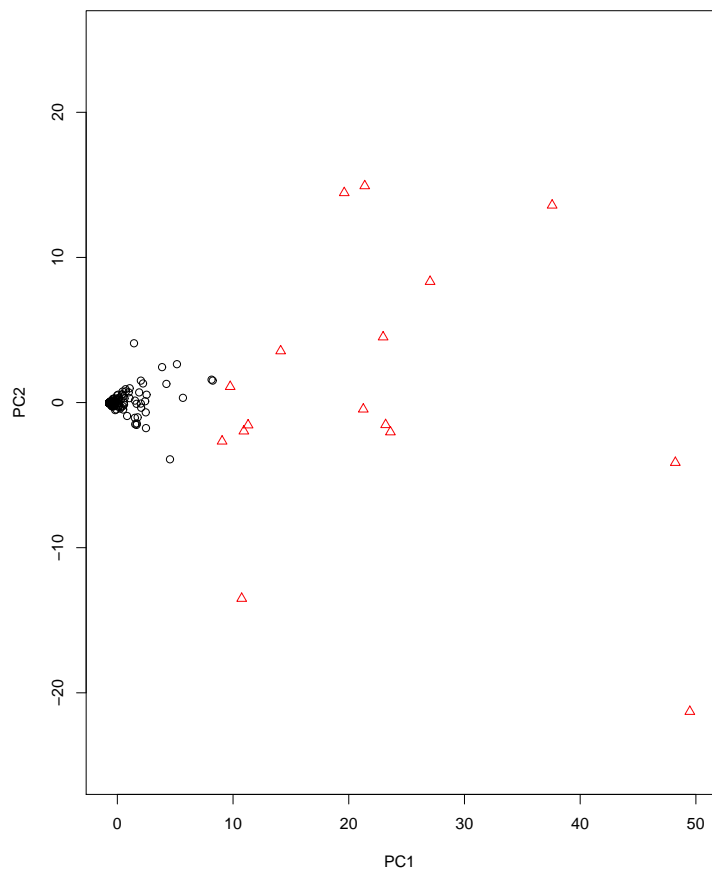
Alzheimer Disease



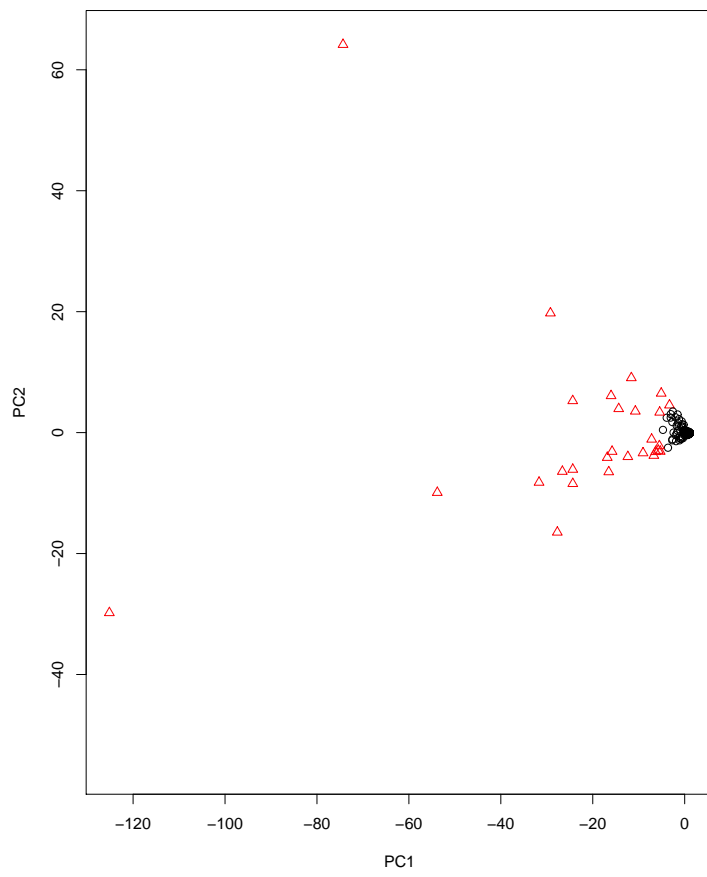
carcinoma



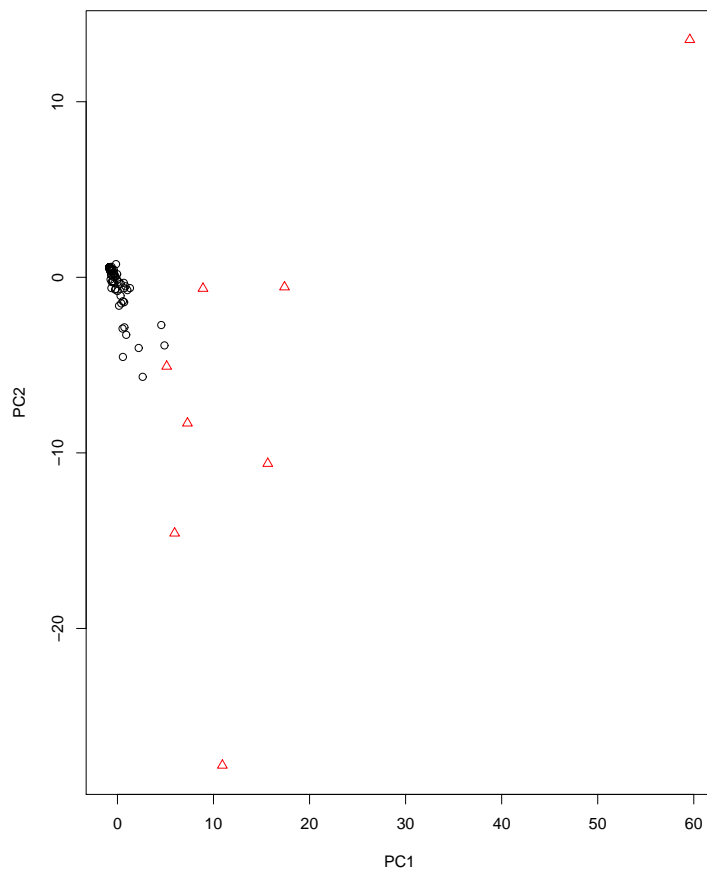
CAD



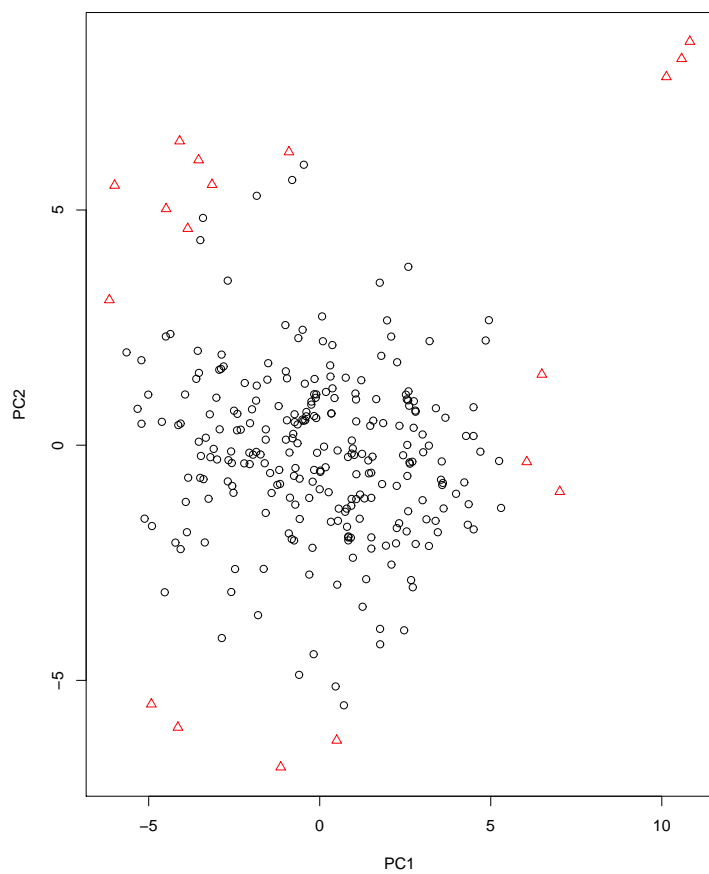
NPC



HCC



BC



AML

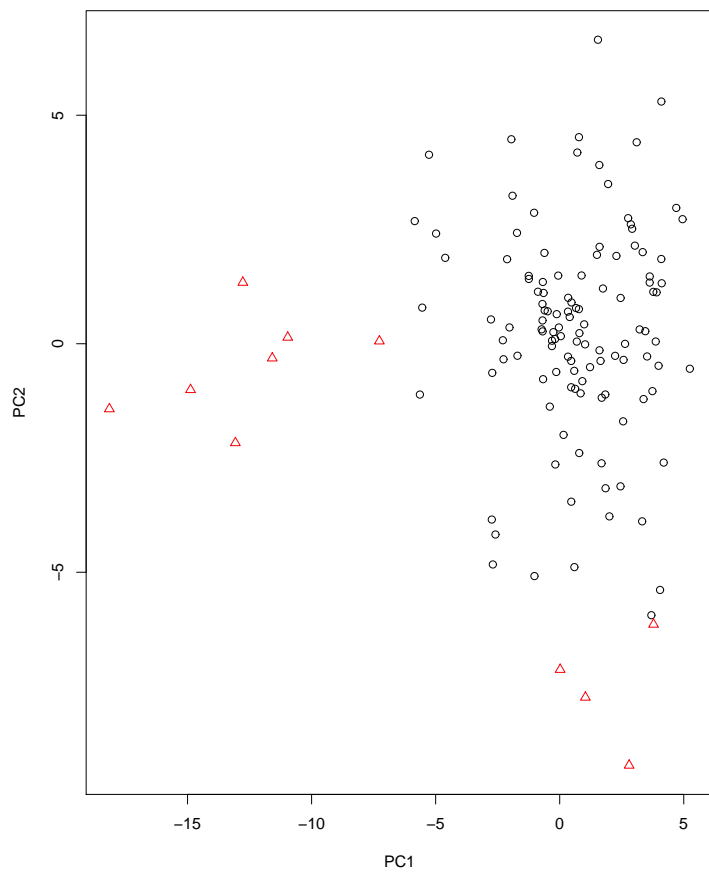
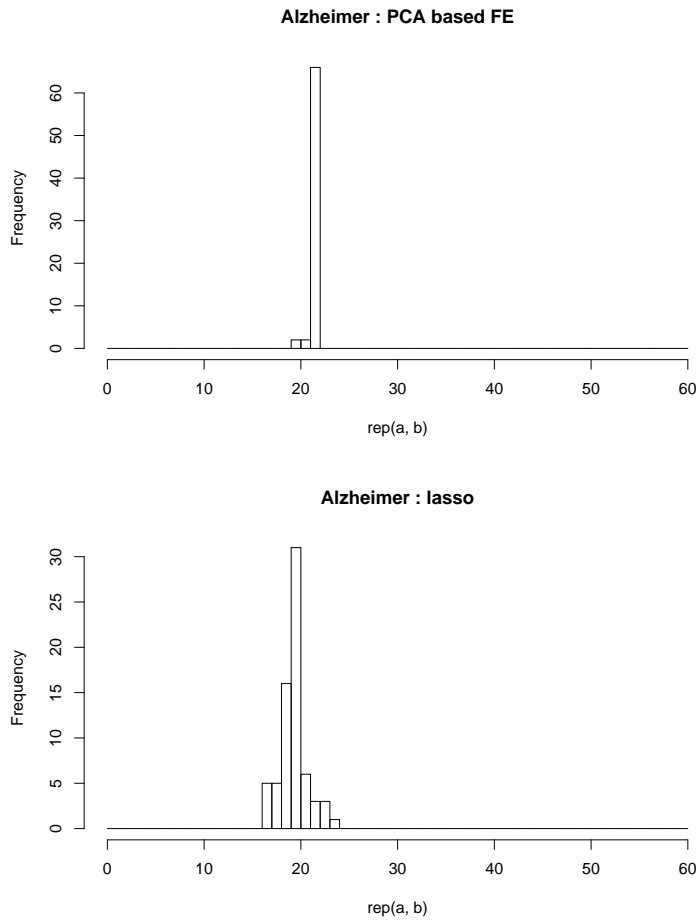
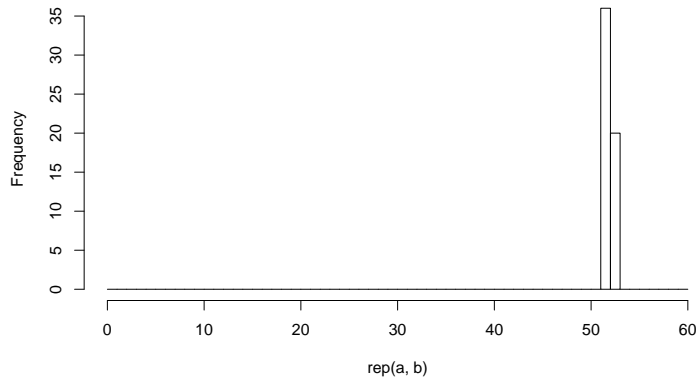


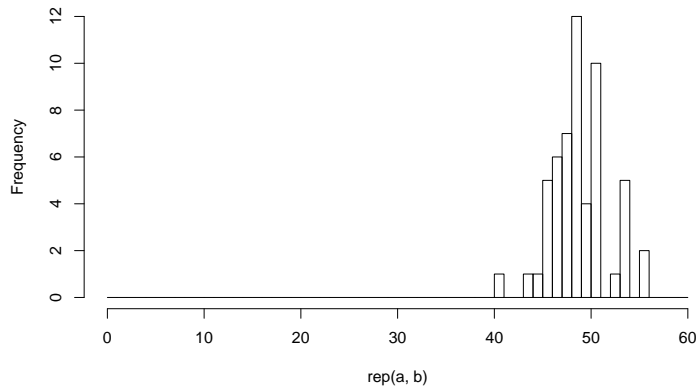
Figure S2 : Histogram of the number of selected miRNAs in FE and the scatter plot of the mean number of selected miRNAs between lasso and PCA based FE. The red solid line in the scatter plot indicates linear regression with assuming that intersect is zero (the slope is 1.11 and $P = 0.001$).



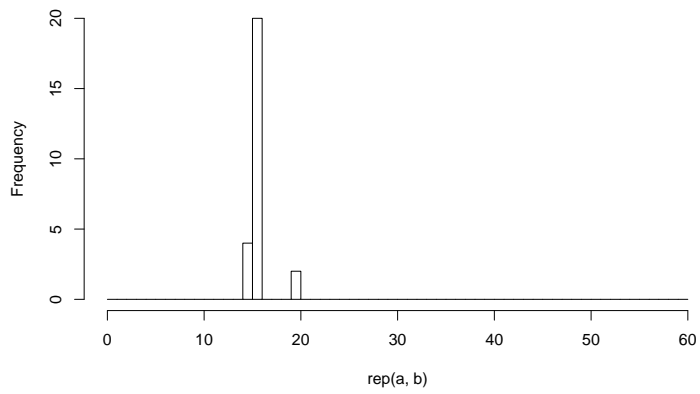
carcinoma : PCA based FE



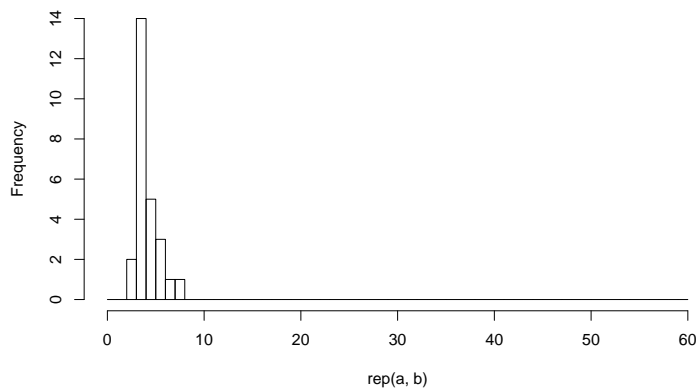
carcinoma : lasso



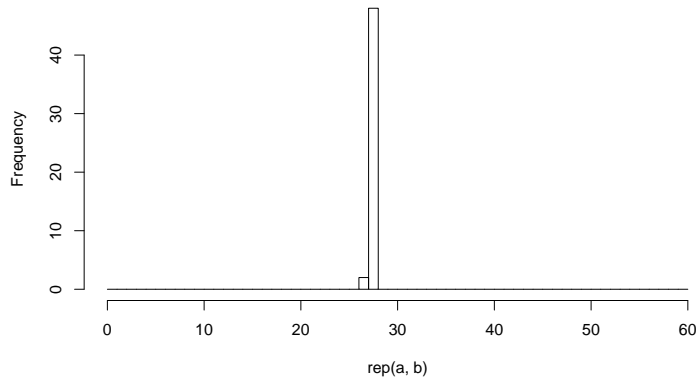
CAD : PCA based FE



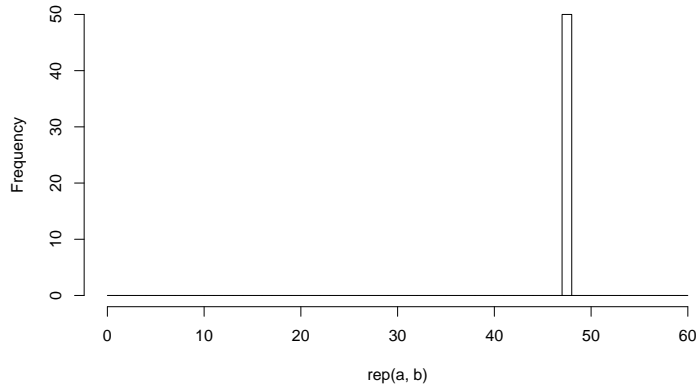
CAD : lasso



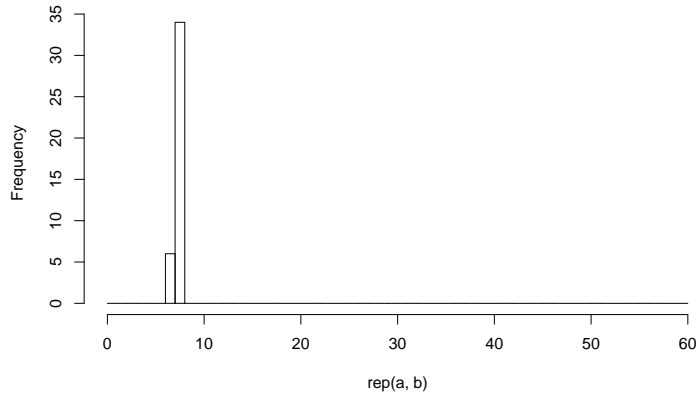
NPC : PCA based FE



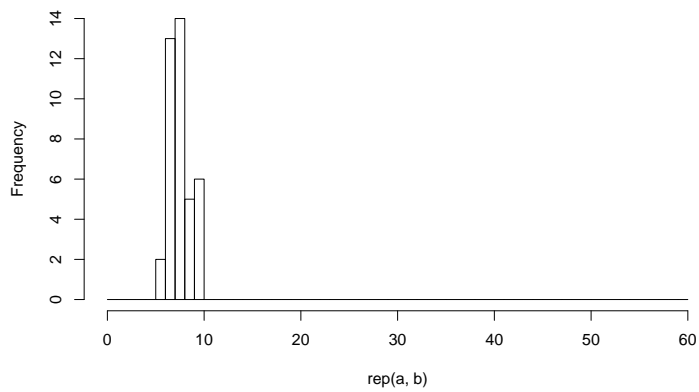
NPC : lasso



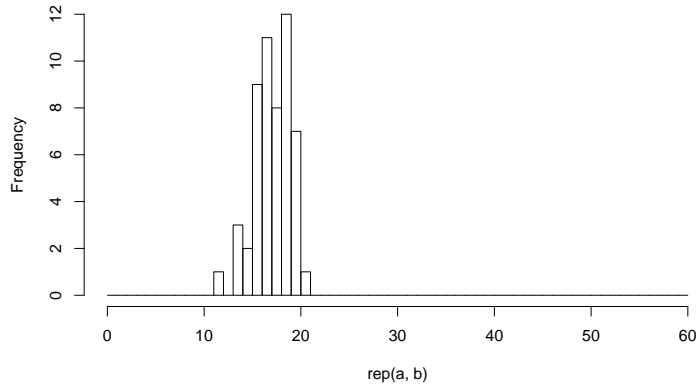
HCC : PCA based FE



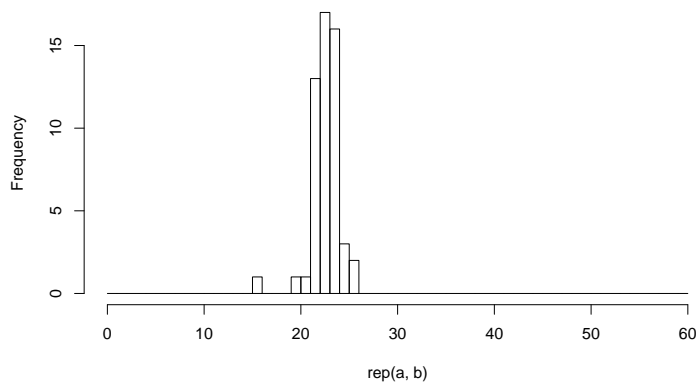
HCC : lasso



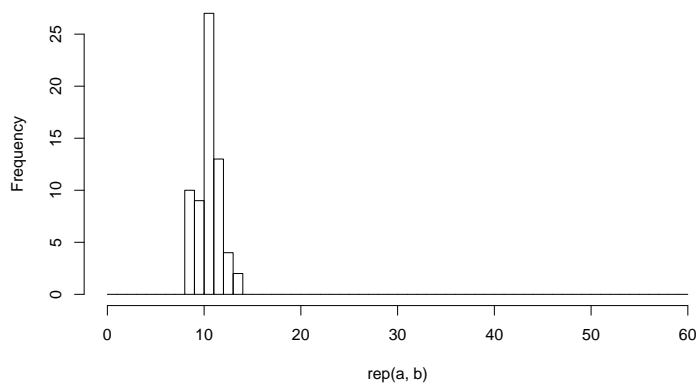
Breast.cancer : PCA based FE



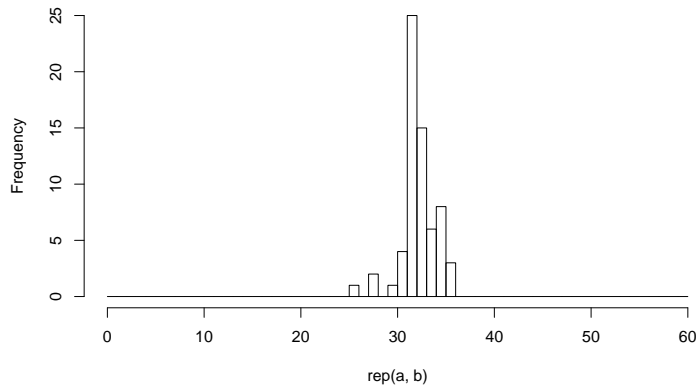
Breast.cancer : lasso



AML : PCA based FE



AML : lasso



number of selected miRNAs

